

Name _____ Date _____ Hour _____

Calculating Angle Measures in Parallel Lines Cut by a Transversal

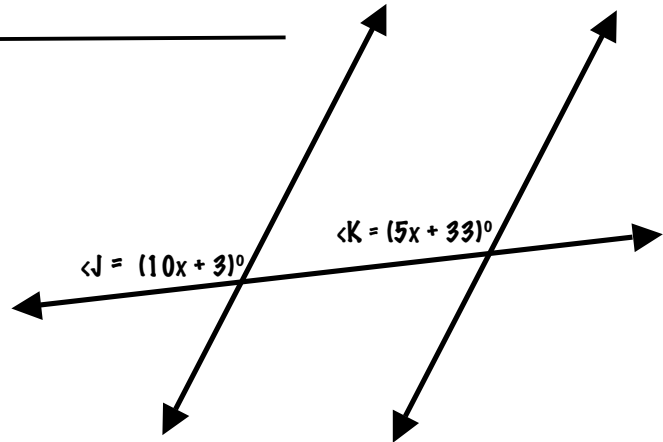
Calculate the measures of $\angle J$ & $\angle K$ for each diagram.

1.

Identify the Angle Relationship: _____

This means that the angles ... _____

Set up the equation:



$x =$ _____

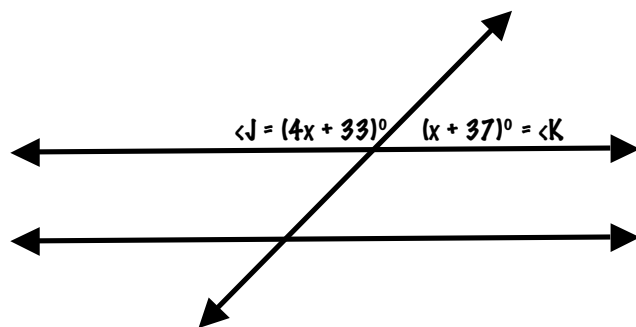
$m\angle J =$ _____ $m\angle K =$ _____

2.

Identify the Angle Relationship: _____

This means that the angles ... _____

Set up the equation:



$x =$ _____

$m\angle J =$ _____ $m\angle K =$ _____

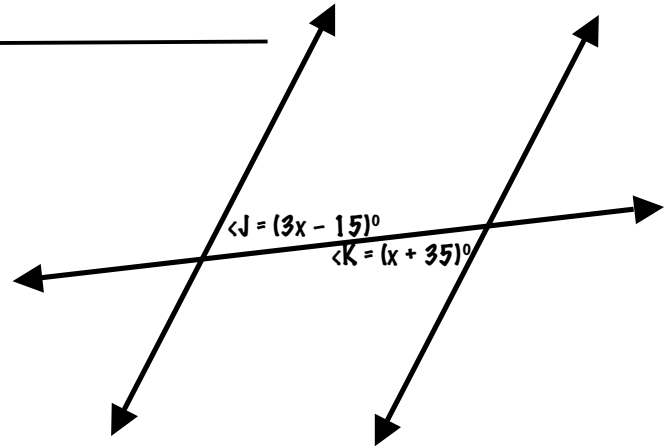
Calculate the measures of $\angle J$ & $\angle K$ for each diagram.

3.

Identify the Angle Relationship: _____

This means that the angles ... _____

Set up the equation:



$x =$ _____

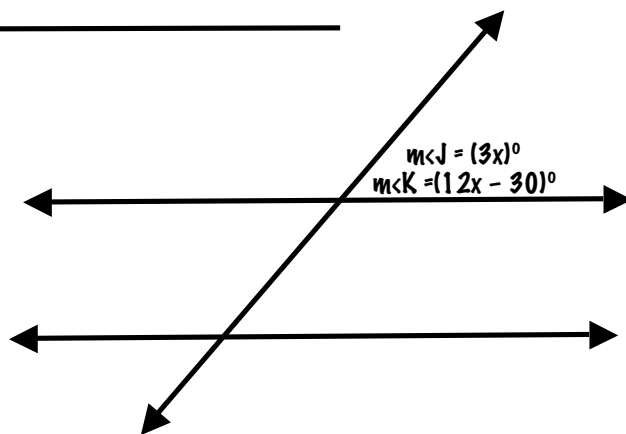
$m\angle J =$ _____ $m\angle K =$ _____

4.

Identify the Angle Relationship: _____

This means that the angles ... _____

Set up the equation:



$x =$ _____

$m\angle J =$ _____ $m\angle K =$ _____

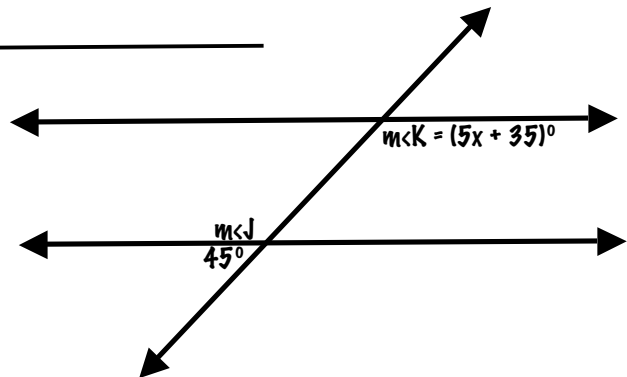
Calculate the measures of $\angle J$ & $\angle K$ for each diagram.

5.

Identify the Angle Relationship: _____

This means that the angles . . . _____

Set up the equation:



$x =$ _____

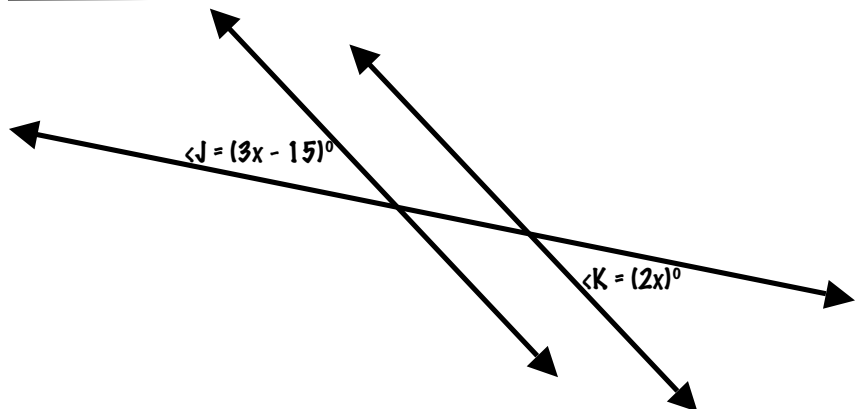
$m\angle J =$ _____ $m\angle K =$ _____

6.

Identify the Angle Relationship: _____

This means that the angles . . . _____

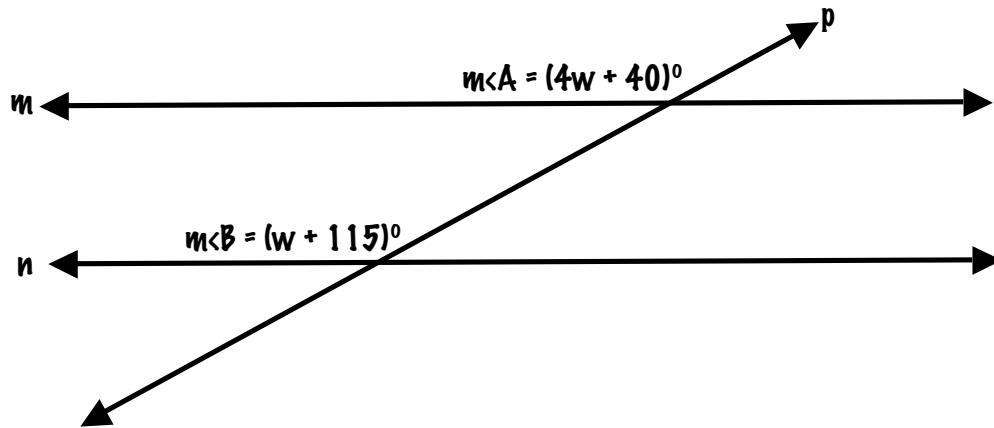
Set up the equation:



$x =$ _____

$m\angle J =$ _____ $m\angle K =$ _____

7. In the figure below, line m is parallel to line n . Line p is a transversal. Find the measures of Angles A & B. One student's work is shown below the figure. Explain what mistake the student made (in words). Then fix the mistake and find the correct missing angle measures.



Student's Work:

What is the Student's Mistake?

Now you correctly calculate the measures of angles A & B.